

COLLABORATIVE FULFILLMENT IN A DISTRIBUTED
SUPPLY CHAIN ENVIRONMENT

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ABSTRACT OF THE DISCLOSURE

10 A computer-implemented method for fulfillment in a distributed supply chain
environment includes receiving an available-to-promise (ATP) request comprising a
plurality of request line-items each corresponding to a desired product, and generating
one or more component ATP requests using at least one rule and based on the request
line-items. At least one of the rules identifies a sourcing constraint associated with a
customer. The method also includes communicating the component ATP requests to
at least one supplier associated with the desired product. The supplier is determined
15 according to at least one rule identifying the sourcing constraint. The method further
includes receiving a plurality of component quotations from at least one supplier, each
component quotation corresponding to a component ATP request and comprising
product availability information for one or more corresponding desired products, and
generating a quotation for communication using the product availability information
20 and at least one contract value associated with a current status of a contract involving
the customer.